

CLAIMS

What is claimed is:

1. A screen printing frame and screen,  
the screen printing frame comprised of a single piece of material,  
5 the single piece of material possessing a rectangular shape, the  
rectangular shape comprised of four sides, the sides possessing four  
interior edges, a top edge, four outside edges, a bottom edge and a  
plurality of support ribs,  
the screen comprised of a fabric, the screen stretched over the top  
10 edge of the screen printing frame, the screen fixedly attached to the  
screen printing frame.
2. The screen printing frame and screen as in Claim 1, where the  
plurality of support ribs is disposed between and parallel to the top  
edge and the bottom edge and perpendicular to the interior edge,  
15 the plurality of support ribs merged solidly into the material of the

interior edge and running longitudinally down each side of the rectangular shape,

the rectangular shape possessing four corner support ribs, the corner support ribs each merging solidly into the material of the top edge,

5 the bottom edge, the support ribs, and the interior edge, the corner support ribs extending from the apexes of the corners of the rectangular shape in a straight line to the interior angle of the inside edge, the corner support rib perpendicular to the top edge, bottom edge, and all of the support ribs.

10 3. The screen printing frame and screen as in Claim 1, where the plurality of support ribs is disposed in the bottom edge, the interior edges, top edge and outside edges being solid, the plurality of support ribs merging solidly into the interior and outside edges and the top edge.

4. A screen printing frame and screen as in Claim 1 where the screen is fixedly attached to the screen printing frame by means of adhesive connecting the screen to the top edge of the screen printing frame.
5. A screen printing frame and screen as in Claim 1 where the top edge of the screen printing frame is inlaid with a metal liner, the metal liner attached fixedly to the top edge of the screen printing frame, the upper surface of the metal liner flush with the top edge of the screen printing frame, the screen attached fixedly to the metal liner.
- 10 6. A screen printing frame and screen as in Claim 1 where the four sides of the screen printing frame are bowed outwards slightly to confer greater strength to the screen printing frame.
7. A screen printing frame and screen as in Claim 1 where the single piece of material is produced by casting.
- 15 6. A screen printing frame and screen as in Claim 1 where the single piece of material is produced by injection molding.